National Aeronautics and Space Administration

DATA & APPLICATIONS ONLINE

Land Validation

Overview

The goal of the EOS Validation Program is the comprehensive assessment of all EOS science data products. The Oak Ridge National Laboratory Distributed Active Archive Center (ORNL DAAC) supports these assessments by compiling data, such as leaf area index (LAI), and net primary productivity (NPP) for global test sites to compare with satellite-derived products. These data are unique in having ground-based observations coincident with satellite data. In addition, this information is useful to develop, calibrate, and validate ecosystem models.

The ORNL DAAC is one of the NASA Earth Observing System Data and Information System (EOSDIS) data centers. NASA data centers provide a wide variety of interdisciplinary Earth system science data, information, services, and tools. EOS Land Validation activities include a remote-sensing study of vegetation canopy nitrogen and lignin content for various ecosystems in the U.S. (Accelerated Canopy Chemistry Program or ACCP); validation of land produts from the Moderate Resolution Imaging Spectrometer (i.e., MODIS) onboard Terra (BIGFOOT); in situ and aircraft measurements for validating satellite products (EOS Land Validation); water vapor, and energy exchange collected from a global network (FLUXNET); MODIS Land Products Subsets for validation of models and remote-sensing products, and for characterization of field sites; and a prototype for validating EOS satellite algorithms and products (PROVE).

Data Links

- Accelerated Canopy Chemistry Program at: **http://daac.ornl.gov/ACCP/accp.html**
- BIGFOOT at: **http://daac.ornl.gov/BIGFOOT_VAL/bigfoot.html**
- EOS Land Validation at: **http://daac.ornl.gov/LAND_VAL/valid.html**
- FLUXNET at: **http://daac.ornl.gov/FLUXNET/fluxnet.html**
- MODIS Land Products Subsets at: **http://daac.ornl.gov/MODIS/modis.html**
- PROVE at: **http://daac.ornl.gov/PROVE/prove.html**

To learn more, go to http://daac.ornl.gov/lv.shtml

ORNL DAAC
User Services
PO Box 2008, Oak Ridge, TN 37831-6407 USA
phone: +1(865)241-3952
uso@daac.ornl.gov